

Date: Wed, 21 Sep 94 04:30:29 PDT
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: Bulk
Subject: Ham-Homebrew Digest V94 #280
To: Ham-Homebrew

Ham-Homebrew Digest Wed, 21 Sep 94 Volume 94 : Issue 280

Today's Topics:

Avantek MSA-0304 : Need Info!
duplexer contruction for 2M ??
Ham-Homebrew Digest V94 #272
MILLIWATT reprints--taking orders
 Needing Info about YAGI.
 New walkmans have AM-Wide
 Overtone Crystal Filters
 QRP mailing address?
 Quads and baluns?
 Reuse surface mount parts?

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>

Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>

Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 16 Sep 1994 14:08:09 GMT
From: news.cerf.net!nntp-server.caltech.edu!netline-fddi.jpl.nasa.gov!
news.byu.edu!news.kei.com!yeshua.marcam.com!charnel.ecst.csuchico.edu!olivea!
korie!newsworthy.West.Sun.COM!@ihnp4.ucsd.edu
Subject: Avantek MSA-0304 : Need Info!
To: ham-homebrew@ucsd.edu

In article 160994085340@jernandez.pbs.org, jernandez@pbs.org (John J. Ernandez)
writes:

>

> I foun~~g~~ an old Avantek MSA-0304 in my parts box last night, but I do not
> remember the specs for the device. I have checked the HP catalog(they now
> own Avantek) and the part does not appear in the book. What is this part?

>Is it a MMIC or GaAs FET transistor? What are the S-parameters for the
>device?

> Any help will be appreciated!!

This is a silicon MMIC; essentially the same as the MAR-3.

* Dana H. Myers KK6JQ, DoD#: j | Views expressed here are

*

* (310) 348-6043 | mine and do not necessarily *

* Dana.Myers@West.Sun.Com | reflect those of my employer

*

* "Sir, over there.... is that a man?" *

Date: Tue, 20 Sep 1994 13:46:31 GMT

From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!library.ucla.edu!csulb.edu!nic-
nac.CSU.net!charnel.ecst.csuchico.edu!csusac!csus.edu!netcom.com!

milcom@network.ucsd.edu

Subject: duplexer contruction for 2M ??

To: ham-homebrew@ucsd.edu

ldheiss@ualr.edu wrote:

: We have the "ARRL Antenna Book", however the information on building a
: duplexer leaves one a bit hungry. Anyone who has additional information
: on building a duplexer please e-mail me so I can correspond with you.

Also recall the arrl handbook talks about alternative to using
duplexers. Isolation can also be achieved by split site, receiver &
transmitter in different locations, but not too far apart, linked by
another band.

Another alternative is same site operation using separate transmit &
receive antennas vertically separated as much as possible. Using RG214
double shielded is a must, but hardline is necessary for minimal loss.
Additional isolation can be achieved with a simple coffee can notch
filter on the receiver, and maybe another on the transmitter/PA.

If you can build cavities as well as wacom, telewave & celwave, there
is great fortune in your future.

Date: Tue, 20 Sep 1994 22:31:13 GMT

From: (null)@oddjob.uchicago.edu@network.ucsd.edu

Subject: Ham-Homebrew Digest V94 #272

To: ham-homebrew@ucsd.edu

subscribe oddjob@cix.compulink.co.uk

oddjob@cix.compulink.co.uk

Date: Tue, 20 Sep 94 07:28:48 EDT
From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!usc!nic-nac.CSU.net!
charnel.ecst.csuchico.edu!yeshua.marcam.com!news.kei.com!eff!news.duke.edu!
zombie.ncsc.mil!cs.umd@ihnp4.ucsd.edu
Subject: MILLIWATT reprints--taking orders
To: ham-homebrew@ucsd.edu

Again, this is mainly for the QRPers who unsubscribed from the QRP list
due to the loss of the daily digest function. I am now taking advance
orders for the non-profit reprints of The Milliwatt (National Journal
of QRPp). Price is \$22 postpaid (applies to US/Canada only). If
interested in ordering, send me an e-mail and I'll send you a copy of
the posting I made to the QRP list. 73 and Queue Our Pea DE WA8MCQ

Date: Mon, 19 Sep 1994 18:50:21 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!EU.net!sunic!news.funet.fi!
nnntp.utu.fi!jusleniapolku.utu.fi!user@network.ucsd.edu
Subject: Needing Info about YAGI.
To: ham-homebrew@ucsd.edu

Hello Fellows!

Does anybody where to get *a Macintosh software* for planning, testing,
and building YAGI antennas? My friend who is needing this prefer to find
something that is free or shareware. Also, all Macintosh programs which
loosely relates to the ham-radio, etc. area are needed.

Could you send me the suggestions for the FTP, Gopher, WWW sites to my
address below. I prefer personal mail, since I don't follow this list
actively.

Thanks!

Jouni.Santara@utu.fi

Date: Tue, 20 Sep 1994 12:01:07 GMT
From: psinnntp!sunsrvr6!jdc@uunet.uu.net
Subject: New walkmans have AM-Wide

To: ham-homebrew@ucsd.edu

In article <Cw6J9J.F1o@cix.compulink.co.uk>,
Stephen Walters <oddjob@cix.compulink.co.uk> wrote:
>The reason the radio covers 1.7Mhz and beyond is because they were made
>for the Japanese home market and the MW / AM band is extended to 1.7MHz
>or possibly even higher there.
>...

The U.S. medium-wave broadcast band is being expanded. Some stations
will be relocated to new frequencies to reduce interference. Don't
know when this will happen, preparation started a couple years ago.
Ask the MW DXer's in rec.radio.amateur.shortwave.

The wide-band feature is the result of an industry effort for a
better quality AM signal. It was called "A-Max" or something like
that. Ask the MW folks for more info.

73...Jim N2VNO

Date: 20 Sep 94 14:28:38 GMT
From: news-mail-gateway@ucsd.edu
Subject: Overtone Crystal Filters
To: ham-homebrew@ucsd.edu

Ian:

This is an interesting thought. I have a filter breadboarded on
the bench behind me using 16 MHz microprocessor xtals. It would be
really quick to test it on the network analyser to see how well it
works at 48 MHz. I suspect that the crytals will be much less closely
matched as overtone units. I have these carefully matched for both
resonance and series resistance, so the response is VERY close to
theoretical.

I'll post the results of my test later in the week.

Ray Mack
WD5IFS
mack@mails.imed.com

Date: 20 Sep 1994 09:43:08 -0400
From: newstf01.cr1.aol.com!newsbf01.news.aol.com!not-for-mail@uunet.uu.net
Subject: QRP mailing address?

To: ham-homebrew@ucsd.edu

In article <35k37m\$dn1@news.xs4all.nl>, fro@xs4all.nl (Frank R. Oppedijk) writes:

asking about the qrp mailing list. The address is

qrp-1@netcom.com

to subscribe, sent this message to listserv@netcom.com:

subscribe qrp-1

in the
body of the message . That should do it.

72, jim n0oct

Date: 20 Sep 1994 14:16:19 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!EU.net!
Germany.EU.net!news.dfn.de!kfk.de!rz.uni-karlsruhe.de!news.uni-stuttgart.de!
moritz@network.ucsd.edu
Subject: Quads and baluns?
To: ham-homebrew@ucsd.edu

Hello,

Upon reading the ARRL handbook from 1988, I noticed that quads,
both for HF and VHF are fed without a balun. However, the quad element
is fed in a current maximum much as the dipole.

Why does one get away without a balun for the one and not for the other?
I should think, that the asymetry will cause distortion of the radiation
pattern and the polarizazion, when the feed cable radiates.

May be it it works reasonably well in a single element or a cubical quad
but certainly not with a quagi!

Any experince/ opinion?

Date: Tue, 20 Sep 1994 13:40:27 GMT
From: psinntp!arrl.org!zlau@uunet.uu.net

Subject: Reuse surface mount parts?

To: ham-homebrew@ucsd.edu

Mike Czuhajewski WA8MCQ (Mike.Czuhajewski@hambbs.wb3ffv.ampr.org) wrote:
: I come across a lot of circuit boards with various types of surface
: mount devices (SMDs) on them, and was wondering if it is practical to
: unsolder them and reuse them in some homebrew projects which require
: SMDs, or if it would be far, far better in every respect to simply bite
: the bullet and spend a fair sum of money to build up a stock of fresh
: SMDs from a catalog? When you remove SMDs and subsequently solder them
: again, are they likely to survive? Or do they tend to sustain a lot of
: damage, or tend to have vastly reduced lifespans? (This is assuming
: use of low wattage irons with tiny tips, for both removal and

No, this isn't the way to remove them. You want lots of heat and solder
so they literally slide off the board. A big iron with a large tip is
in order. Some people might even recommend a torch of some sort, but I
use a 100 watt iron to solder even waveguide!

--

Zack Lau KH6CP/1 2 way QRP WAS
 8 States on 10 GHz
Internet: zlau@arrl.org 10 grids on 2304 MHz

End of Ham-Homebrew Digest V94 #280
